

Listing of Claims:

1. (Cancelled)

2. (Currently Amended) The system of claim 4, said W layer comprising a thin film.

3. (Cancelled)

4. (Currently Amended) A sensor system, comprising:
an AlN substrate,
a W layer on said substrate,
an oxidation resistant gold, Au-Pt alloy, or Pt
or B₂O₃-SiO₂ protective layer on said W layer,
a signal source connected to apply a current or voltage actuating signal to said W layer, and
a sensor connected to sense the voltage across said W layer in the case of a current actuating signal, or the current through said W layer in the case of a voltage actuating signal.

5-6. (Cancelled)

7. (Previously Presented) The system of claim 4, said protective layer comprising an Au-Pt alloy with W on said Au-Pt alloy.

8. (Previously Presented) The system of claim 4, said protective layer comprising an Au-Pt alloy with B₂O₃-SiO₂ on said Au-Pt alloy.

9. (Cancelled)

10. (Previously Presented) The system of claim 4, said protective layer further comprising Pt with $B_2O_3-SiO_2$ on said Pt.

11. (Currently Amended) The system of claim 3 4, further comprising an AlN cap on said protective layer.

12. (Currently Amended) The system of claim 1 4, said W layer comprising a plurality of conductive strands distributed on said substrate.

13. (Original) The system of claim 12, wherein said strands are generally parallel and serpentine shaped.

14. (Original) The system of claim 13, wherein said substrate is rectangular.

15-18. (Cancelled)

19. (Currently Amended) The system of claim 1 4, further comprising an additional AlN substrate with an additional W layer thereon, said signal source connected to apply a substantially non-heating current or voltage signal to said additional W layer, and a sensor connected to sense the voltage across said additional W layer in the case of a non-heating current signal, or the current through said additional W layer in the case of a non-heating voltage signal, as an indication of its temperature,

said additional substrate and additional W layer disposed downstream of said substrate and W layer in a

fluid flow path, with the difference in temperature between said W and additional W layers corresponding to the fluid flow rate.

20. (Currently Amended) The system of claim 4, said substrate and W layer disposed in a fluid flow path, said response sensed by said sensor corresponding to a fluid flow rate along said path.

21-72. (Cancelled)